



City of Scottsdale

PROJECT NARRATIVE FOR CITY INITIATED PROJECTS



- ☐ Rezoning ☐ Other
- ☒ Use Permit
- ☐ Development Review
- ☐ Master Sign Programs
- ☐ Text Amendment

Case # **77-DR-2003** / 432 -PA- 2003

Project Name Regulatory Compliance Improvements Project

Location CAP Water Treatment Plant

Applicant City of Scottsdale

Ordinance Section

SITE DETAILS

Proposed Zoning: ~~ES-1~~ ES-1, PCD

Existing Zoning: ~~O.S.PCD~~ O.S.PCD, PCD

Parcel Size: 6.9 acres, total

Height: Approx. 50 feet max. planned building height

Parking Required: 0 spaces

Parking Provided: 0 spaces

Of Buildings: 2 (not incl. 2 on exist. WTP Parcel)

Setbacks: N- 25 feet S- 25 feet

E- N/A W- 0 feet

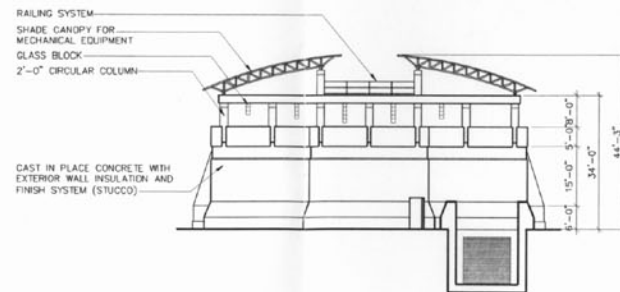
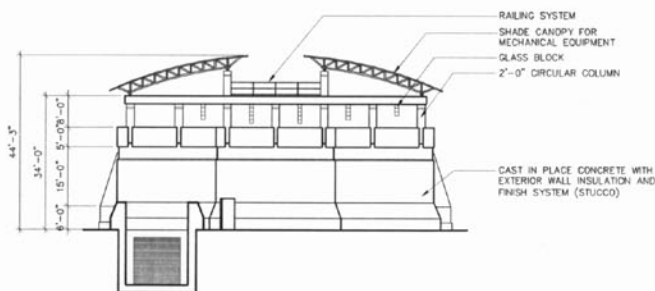
In the following space, please describe the project or the request

The purpose of this project is to design a granular activated carbon (GAC) facility for treatment of drinking water at Scottsdale's Central Arizona Project (CAP) Water Treatment Plant (WTP). The additional treatment is required for the City to comply with the anticipated Stage 2 Disinfectant/Disinfection By-Product Rule promulgated by the U.S. EPA. The GAC facility is to be added to the CAP WTP process train downstream of the existing granular media filters and is intended lower dissolved organic carbon (DOC) concentrations in the filtered water and reduce undesirable reactions of DOC with the chlorine disinfectant.

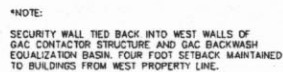
The planned site layout includes a new building dedicated to the GAC process and adjacent pumps, piping, valves, and concrete vaults. The GAC building will house the carbon contactors; ancillary piping, valves, and pumps; and electrical and control equipment. An influent pumping station to deliver filtered water to the GAC facility will be located adjacent to the GAC building. The design of all structures for the project will employ architectural concepts compatible with the existing CAP WTP site and its surroundings. The City of Scottsdale is in the process of acquiring additional undeveloped land west of the WTP site that is currently owned by the State of Arizona. A portion of the GAC facility will be constructed on this additional land. The existing CAP WTP site enclosure will also be modified to encompass the newly acquired land and maintain a secure site. Stormwater drainage from the GAC facility area will continue to flow south generally following existing drainage patterns at the CAP WTP.

The CAP WTP will experience additional periodic traffic from carbon delivery tankers along the plant's southern and western perimeters, as shown on the Conceptual Site Plan. The existing WTP access road will not be modified as shown on the Conceptual Site Plan until an additional finished water reservoir is constructed over the existing plant access road. The need for the additional reservoir may not be determined until design of the CAP WTP expansion to 75 million gallons per day is undertaken in future years. The plant expansion is not part of this GAC facility project.





PRELIMINARY – NOT FOR CONSTRUCTION



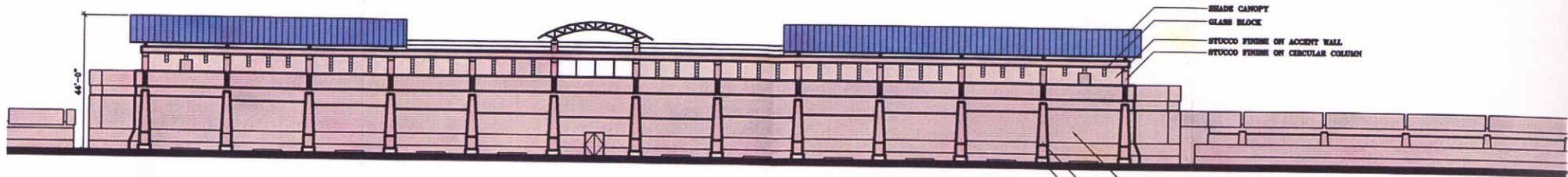
10 0 10 20
SCALE: 1" = 20'

**MALCOLM
PIRNIE**

REGULATORY COMPLIANCE IMPROVEMENTS PROJECT
CAP WATER TREATMENT PLANT

MALCOLM FIRNIE, INC.
OCTOBER 2003
EXHIBIT II-4

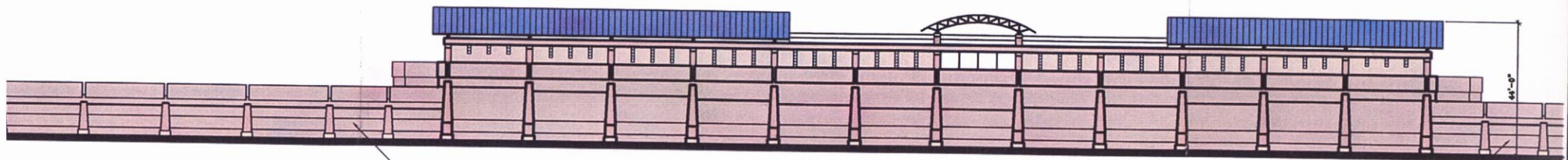
77-DR-2003
10-20-03



EAST ELEVATION

SHADE CANOPY
GLASS BLOCK
STUCCO FINISH ON ACCENT WALL
STUCCO FINISH ON CIRCULAR COLUMN

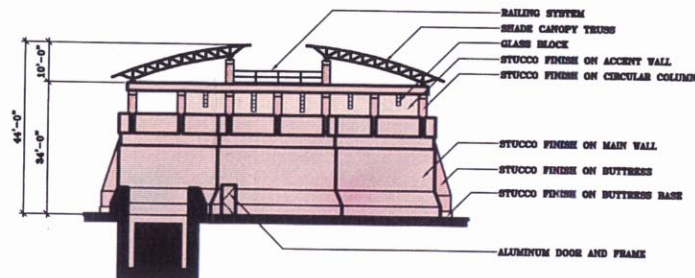
STUCCO FINISH ON MAIN WALL
STUCCO FINISH ON BUTTRESS
STUCCO FINISH ON BUTTRESS BASE



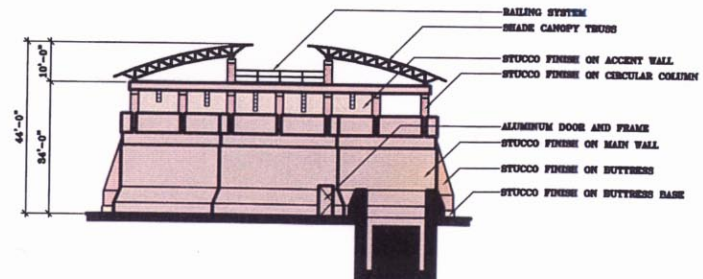
WEST ELEVATION

PERIMETER WALL

PERIMETER WALL



NORTH ELEVATION



SOUTH ELEVATION

RAILING SYSTEM
SHADE CANOPY TRUSS
GLASS BLOCK
STUCCO FINISH ON ACCENT WALL
STUCCO FINISH ON CIRCULAR COLUMN

STUCCO FINISH ON MAIN WALL
STUCCO FINISH ON BUTTRESS
STUCCO FINISH ON BUTTRESS BASE

ALUMINUM DOOR AND FRAME

RAILING SYSTEM
SHADE CANOPY TRUSS
STUCCO FINISH ON ACCENT WALL
STUCCO FINISH ON CIRCULAR COLUMN

ALUMINUM DOOR AND FRAME
STUCCO FINISH ON MAIN WALL
STUCCO FINISH ON BUTTRESS
STUCCO FINISH ON BUTTRESS BASE

8 0 8 16
SCALE: 1/16" = 1'-0"

PRELIMINARY - NOT FOR CONSTRUCTION

MALCOLM
PIRNIE

CITY OF SCOTTSDALE, ARIZONA

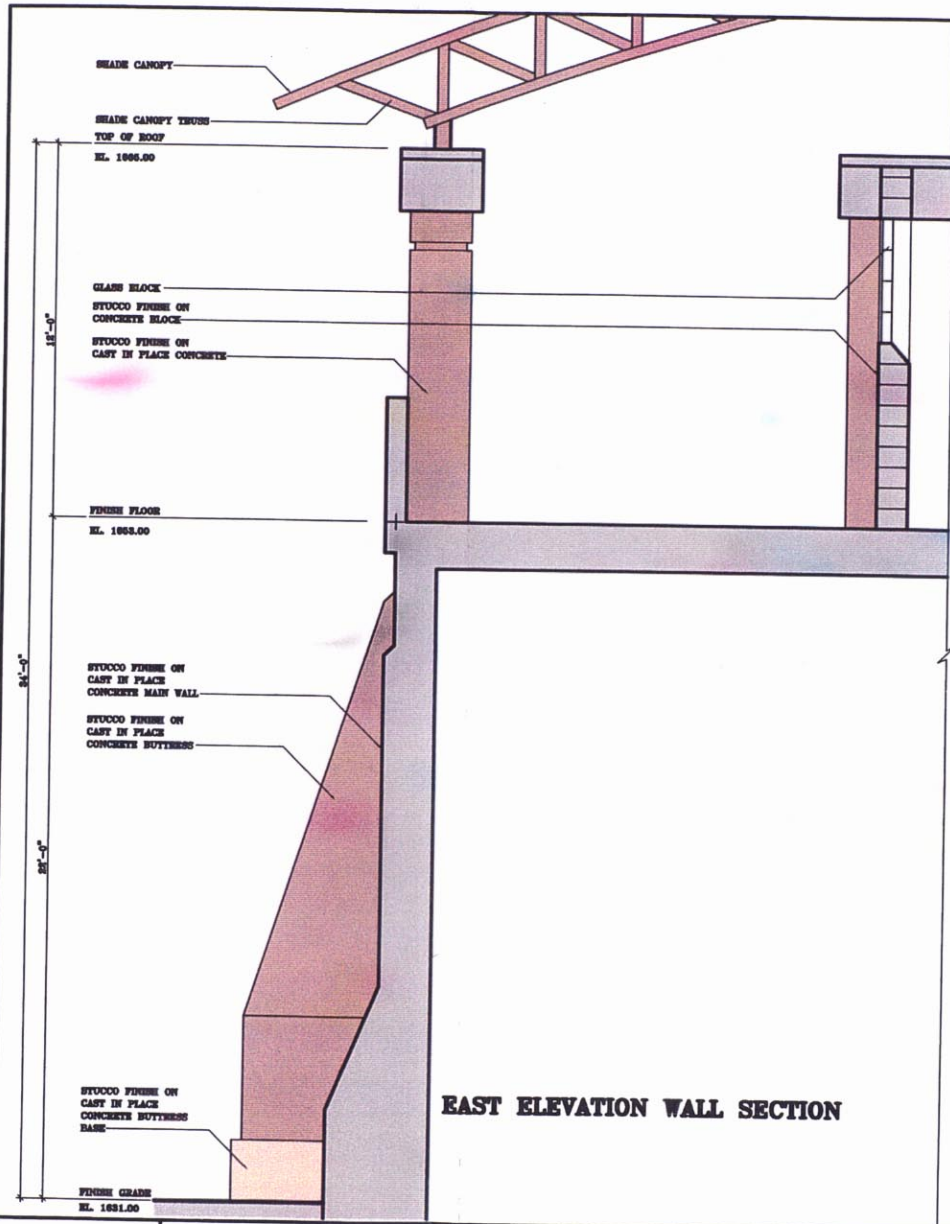
REGULATORY COMPLIANCE IMPROVEMENTS PROJECT
CAP WATER TREATMENT PLANT

ARCHITECTURAL
ELEVATIONS

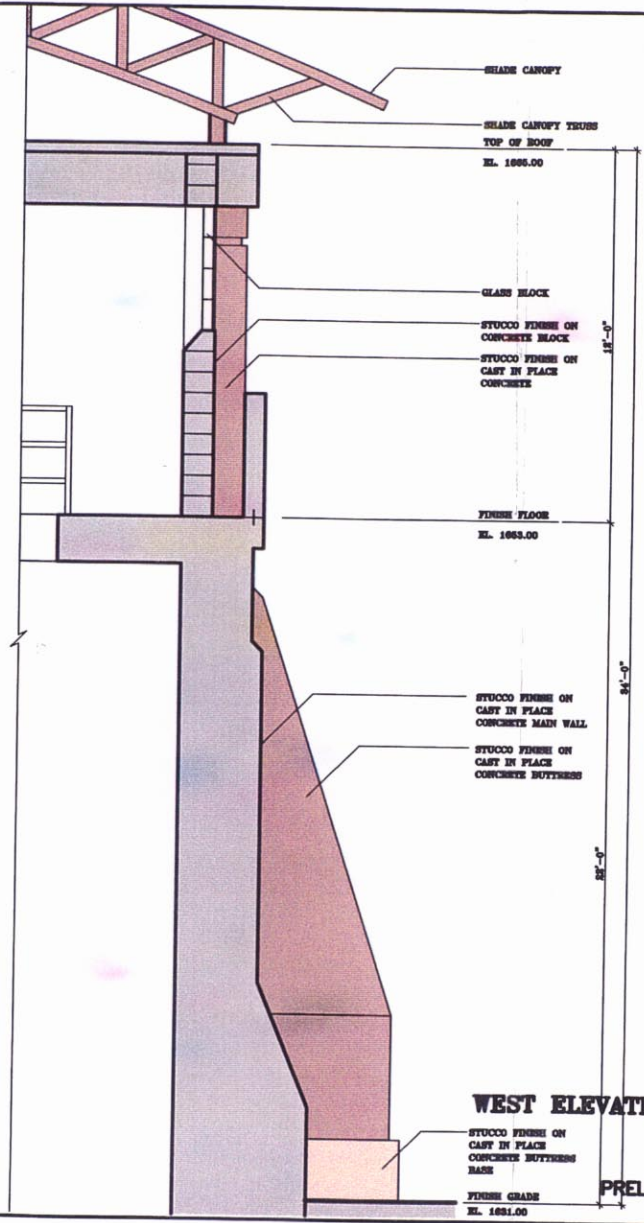
1/16" = 1'-0"

MALCOLM PIRNIE, INC.
OCTOBER 2003

77-DR-2003
10-20-03



EAST ELEVATION WALL SECTION



WEST ELEVATION WALL SECTION

0 5 10
SCALE: 1/16" = 1'-0"

PRELIMINARY - NOT FOR CONSTRUCTION

**MALCOLM
PIRNIE**

CITY OF SCOTTSDALE, ARIZONA

REGULATORY COMPLIANCE IMPROVEMENTS PROJECT
CAP WATER TREATMENT PLANT

ARCHITECTURAL
WALL SECTIONS

SCALE: 1/2" = 1'-0"

MALCOLM PIRNIE, INC.
OCTOBER 2003